

# RHEOMIX<sup>®</sup> 151

Liquid admixture for cementitious levelling screeds

## Description

RHEOMIX 151 is a liquid ultra stable 'micro' air entraining super plasticiser, designed to enhance mechanical properties and reduce the incidence of curling within screeds. RHEOMIX 151 is formulated to cope with variations in cement and aggregate sources and quality.

## Primary uses

RHEOMIX 151 is an admixture for use in screed mixes and reduces the mixing water but still enables the screed to be compacted easily.

RHEOMIX 151 is particularly suited to use in floating & unbonded fine concrete screeds.

RHEOMIX 151 may be used to reduce cement contents of screed mix designs and thus reduce the overall carbon footprint of a building.

## Advantages

- Excellent flexural and tensile strengths.
- Reduced shrinkage and thus susceptibility to curling.
- Reduced drying times.
- Works well with difficult aggregates.
- Increased resistance to damage by freeze / thaw cycles.
- Improved pumpability.
- Greatly improved plasticity.

## Typical performance data

The physical properties of the screed mix will depend on the ingredients and the mix design used. The performance data below is based on locally available raw materials within the UAE.

Aggregate Cement Ratio	5.5:1 by weight	
Free Water Cement Ratio	0.5 by weight	
Aggregate	35% Dune Sand 65% 0-5mm Was.Gabbro	
Rheomix 151	1 litre per 100kg OPC	
Compressive Strength	EN 13892-2	C30
Flexural Strength	EN 13892-2	F6
Wear Resistance (Böhme)	EN 13892-3	A22
Shrinkage & Swelling	EN 13452-2	<0.5mm/m
Drying Times* (<75% RH) 25°C 60% RH	25mm Thick	5 days
	50mm Thick	7 days

\*Time from removal of plastic curing sheet. Drying times will vary depending on curing method, ambient conditions and thickness of screed.

## Packaging

RHEOMIX 151 is supplied in 210 litre containers or in bulk.

## Compatibility

Please consult the BASF technical representative before using RHEOMIX 151 with other admixtures. It can be used for all types of Portland cement, including Sulphate Resisting.

## Watch points

RHEOMIX 151 provides protection from frost down to -2°C in the wet mortar. Therefore, RHEOMIX 151 should not be used at temperatures below -2°C or if the temperature is expected to drop below -2°C within 24 hours. Normal winter working precautions must be taken.

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## Dosage rate

RHEOMIX 151 is added at the rate of 0.5 - 1 litre per 100 kg of cement for normal applications. Please consult your local BASF representative for additions above or below this.

It is recommended to use RHEOFIBRE, polypropylene monofilament fibres, with RHEOMIX 151 screeds.

## Directions for use

RHEOMIX 151 may be either pre-mixed with the water or added directly into the mix at the same time as the water.

Note: The superior plasticising qualities of RHEOMIX 151 will result in a significant reduction in water demand of any given mix.

## Storage

Store under cover, out of direct sunlight and protect from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF's Technical Services Department.

## Safety precautions

RHEOMIX 151 contains no hazardous substances requiring labelling. For further information see material safety data sheet.

## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

10/2009 BASF\_CC-UAE revised 07/2010

\* Properties listed are based on laboratory controlled tests.

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